1st & Final

M. A. R. 57 (Rule 116)
Measurement Book

No. E 497341

Serial No. ....
Name of work Construction of compound wall and drilling of Borewell at attur government school building From ..... To .....
Name of Contractor of nature of Agency in ward no 4, Yelahanka satellite town sub division.
Date of commencement of work .....

Date	Full description, etc, of work	Number	Dimensions: Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	work code no:- BEMP/EE/YNK.D/CPWD-12/WO/52/2022-23 Dated:- 31.12.2022						
	Job-code = 004-23-000007						
	Head of Account:- P3726						
	Name of Agency:- U.Ramesh						
	Estimated cost :- 50 Lacks/-						
	1) Demolishing brick work manually by mechanical means including stacking of serviceable material and disposal of unserviceable et. Qty vide pre-measurement recorded in E-MB Page no:-1	---				12.80	cum.
	@ 867.90/-	---				Rs	11109.12/-

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	2) Dismantling steel work manually by mechanical means in built up sections without dismembering etc.						
	Qty vide pre-measurement recorded in E-MB page No:- 1					166.50	Sq.M
	@Rs. 2.21					Rs:	357.96/-
	3) Earth work excavation by manually means for drains, canals, waste weir, draft, approach, channels, key trenches, foundation of bridges and such similar work in all kinds of soft						
	Qty vide pre-measurement recorded in E-MB page No:- 2					28.93	Cum
	@Rs 218.91					Rs:	6334.38/-
	4) Providing and filling in foundation with granite trap broken metal loosen and dress to size, with approved sand etc.						

Serial No. .....
Name of work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Fro

Date	Full description, etc. of work	Number
1	2	3
	Qty vide pre-measurement Recorded	
	5) Packing and laying in position	
	packing coarse for all works in fou	
	Crushed graded coarse aggregates	
	Qty vide Pre-measurement Recorded	
	6) Providing size stone masonry	
	in flush with cement mortar	

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497342

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Number	Dimensions: Length	Dimensions: Breadth	Dimensions: Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Qty vide pre-measurement Recorded in E-MB page no: 2					10.59	cum.
	@ RS 817.10					RS=	8653.08/-
5)	providing and laying in position plain cement concrete for levelling course for all works in foundation. the granite/stone/boulder crushed graded coarse aggregates and fine aggregates etc.						
	Qty-vide pre-measurement Recorded in E-MB page no: 2					35.86	cum.
	@RS 6109.40					RS=	219083.08/-
6	Providing size stone masonry with hard stone in foundation & plinth with cement mortar 1:6						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty-vide pre-measurement recorded in page No: 3					99.83	cum
	@ Rs 5887.20					= Rs.	587719.17/-
							=
9)	providing thermo-mechanically treated bars of grade Fe-550 steel reinforcement for RCC work including etc.						
	Qty-vide pre-measurement Recorded in page No: 3					7350.10	Kg
	@ Rs 105.60					= Rs	776170.56/-
							=
7)	providing and laying in position Reinforced cement concrete for all substructure of building, Irrigation works etc.						
	Qty-vide pre-measurement Recorded in page No: 4					55.40	cum
	@ Rs 7115.80					= Rs	394364.90/-
							=

Serial No.
Name of work
Name of Contractor of nature of Agency
Date of commencement of work

Date	Full description, etc, of work
1	2
1)	Geological investigation
	& surveying during wo
	Qty-vide Pre-measurem
2)	Siting of Borewell
	by hydraulic rig
	Qty-vide Pre-measurem

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Serial No. ..... From ..... To .....
Name of work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
19)	Geophysical investigation at site for sinking Borewells for supplying drinking water to the Habitation either etc. Qty. vide Pre-measurement Recorded in E-MB in Page No: 4 - - - - - @ Rs 655.10 - - - - - -					1 = Rs	NO 655.10/-
20)	Sinking of Borewells of 165mm dia close using super fast hydraulic rig of capacity 350 PSI (2.5 bar) above 100 CMRL etc. Qty. vide Pre-measurement Recorded in E-MB Page No: 5 - - - - - @ Rs 319.00 - - - - -					50 = Rs	RM 15950.00/-

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	21) Sinking of Borewells of 165mm dia clean using Super fast hydraulic rig = 50M to 100M Qty vide pre-measurement Recorded in E-MB page no. 5 @ 400.40					50 = RS	RM 20020.00/- =
	22) Sinking of Borewells of 165mm dia clean using Super fast hydraulic rig - 100 to 150M Qty vide Pre-measurement Recorded in E-MB page no. 5 @ 425.70					50 = RS	RM 21285.00/- =
	23) Sinking of Borewells of 165mm dia clean using Super fast Hydraulic rig = 150M to 200M Qty vide pre-measurement Recorded in E-MB page no. 5 @ 493.90					50 = RS	RM 24695.00/-

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Measurement Book

497344

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
24)	Sinking of Borewell of 165 mm dia clear using Super fast Hydraulic rig = 200M to 250M as vide pre-measurement Recorded in E-MB Page No. 6					50	RM 28985.00/-
			@579.70			RS	
25)	Sinking of Borewell of 165mm dia clear using Super fast Hydraulic rig = 250M to 300M as vide pre-measurement Recorded in E-MB Page No. 6					50	RM 30690.00/-
			@613.80			RS	

RM 20020.00/-
=

RM 21285.00/-
=

RM 24675.00/-

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
26)	Sinking of Tubewells of 165mm dia clear using Super fast hydraulic rig = 300m to 350m. Qty vide Pre-measurement Recorded in E-MB Page No: 6					50	RM
			@ 682.00			= RS	34100.00/-
27)	Supply of ISI mark 175mm nominal bore, plain & steel casing pipe grade of steel Fe-410 of wall thickness etc. Qty vide Pre-measurement Recorded in E-MB Page:- 7					60	RM
			@1263.00			= RS	75780.00/-
28)	PVC pipes of 10 kg/cm² for 200mm. Qty vide Pre-measurement Recorded		MF-MB Page:- 7			10	RM
			@1329.00			= RS	13290.00/-

Serial No.
Name of work
Name of Contractor of nature of Agency
Date of commencement of work

Date	Full description, etc, of work
1	2
29)	Laying and lying of RCC IS 1239 (Part-II) 19 Qty vide pre-measureme
30)	Earth work excavation upto 600mm trench Qty vide pre-measure

Reference to last Measurement 8
RM 34100.00/- =
RM 7578.00/- =
RM 13290.00/- =

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Serial No. ..... From ..... To .....
Name of work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
29)	Providing and laying at site of work MS casing pipes as per IS 1239 (Part-II) 1982 with all latest amendments etc. Qty vide pre-measurement Recorded in CMB Page: 7		@ 180.40			1 = RS	RM 180.40/- =
52)	Earth work excavation for pipelines/cables by manual means upto 600mm trench width, as per drawing etc. Qty vide pre-measurement Recorded in CMB Page; 7		517.00 @ 468-30			270 = RS	RM 13959.00 600098-00/- =

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
53)	providing and installing at site of work PVC pipes including cost of pipes & specials and labour etc. qty vide pre-measurement recorded in MB page no. 07 @168.30 ----------					60 ---- RS	Sqm 10098.00/- =
8)	providing & laying in position Reinforced cement for all Super structure of building etc. qty vide post-measurement Recorded in MB page No: 6 @ 7485.06 ----------					5.20 ---- = RS	Cum 38922.31/- =
10)	filling available excavated earth in trenches, plinth, sides of foundation & other similar etc						

Serial No.
Name of work
Name of Contractor of nature of Agency
Date of commencement of work

Date	Full description, etc. of work	Number
1	2	3
	qty vide post-measurement E-M	
9)	Loading & unloading of Store	
	qty vide post-measurement E-M	
12)	Cost of Haulage excludi	
	out lot lead & lead (Otherwise Post-measurement E-	

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No. E
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Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Number	Dimensions: Length	Dimensions: Breadth	Dimensions: Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Qty vide post-measurement E-MB Page: 6		- - -	- - -		91.27	cum.
	@224.40		- - -	- - -		= RS	20480.98/- =
	11) Loading & unloading of stone Boulders/stone aggregates.						
	Qty vide Post-measurement E-MB Page: 6		- - -	- - -		202.46	cum
	@29.80		- - -	- - -		= RS	6033 30/- =
	12) Cost of Haulage Excluding loading & unloading taxes out lot load & load (0 km = 100 t. km						
	Qty vide Post-measurement E-MB		Page: 6 - - -	- - -		259.14	cum.

Reference to last Measurement 8

sqm
10098.00/-
=

cum
38922.3/-
=

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
			@Rs 05·60	- -	- -	- - =Rs	27365·18/-
13)	Providing & construction of load bearing wall with Solid concrete block size 30 cm as per post-measurement, E-MB, page no: 7		@Rs 167·10	- -	- - -	370·00 - - =Rs	SQM 431827·00/-
14)	Fabricating, Providing & erecting in position hot dip galvanised Gate, using 72x72x4 & 50·6 GI Pipe frame as per post-measurement, E-MB page no: 7		@Rs 2475·00	- -	- - -	10·00 - - - Rs	SQM 124750·00/-
15)	Providing 20mm cement plaster of mix 1:4 to brick/stone masonary including rounding off corner etc.						

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Measurement Book

Serial No. ..... From ..... To .....
Name of work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Number	Dimensions Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Qty vide post-measurement, E-MB page No:- 07		- - -		- -	779.64	SQM
	@Rs 28.90		- -		- - -	- - : RS	22531.59/-
16)	finishing walls with Acrylic smooth exterior paint of required shade.					862.08	
	Qty-vide post-measurement E-MB page No:- 8		- - -		- - -	158.64	SQM
	@Rs 19.60		- - -		- - -	- - : RS	42759.16/-
17)	finishing with Epoxy paint two coats on all locations prepared & Applied as per manufacturer's specifications.					158.64	SQM.
	Qty vide post-measurement E-MB page No:- 8		- - -		- - -	- - - RS	8217.55/-
	@Rs 51.80		- -		- - -		

Reference to last Measurement 8

27365.19/-
=

SQM
431827.09
=

SQM
12475.00
=

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	28) providing & laying water proofing treatment of the Roof with PU based single Component. Qty vide post-measurement, E-MB Page No:9 @Rs 745.00					74.52 = Rs:	Sqm 55517.00/-
	30) Fabricating supplying & mounting MS Box made out SWG Suitable for floor/wall mounting. Qty vide post-measurement, E-MB Page No:9 @Rs 0.38					2000.00 = Rs	Sq.cm. 760.00/-
	31) Supply & delivery at site wrought middle steel GI union Confirming. Qty vide Post-measurement, E-MB Page No:9 @Rs 240.90					1.00 = Rs	Each 240.90/-

Serial No.
Name of work
Name of Contractor of nature of Agency
Date of commencement of work

Date	Full description, etc, of work
1	2
	30) Supply & delivery at site wro GI hexagonal nipple conf Qty vide Post-measurement, E
	33) Supply & delivery at site 2 nos confirming. Qty vide, Post-measurem

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No. E 497348

Serial No. ..... From ..... To .....

Name of work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
32)	Supply & delivery at site wrought Middle steel GI hexagonal nipple conforming. Qty vide Post-measurement, E-MB page no: 9					3.00	Each
			@ Rs 192.50			= Rs	577.50/-
33)	Supply & delivery at site wrought Middle steel GI Elbow conforming. Qty vide, Post-measurement E-MB page no: 9					3.00	Each.
			@ Rs 40.90			= Rs	122.70/-

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	34) Labour charges for erection, electrification and Commissioning of pumpsets, including aligning etc. complete. Post-measurements as per MB Page No: 10 @Rs 6765.00					1	Job — Rs 6765.00/- =
	35) Labour charges for erection of out door type panel board and meter board units with all necessary etc. complete, Post-measurements as per MB Page No: 10 @Rs 1485.00					1	Job — Rs 1485.00/- =
	36) Supplying of 1.1 KLT UG Cable XPLE of heat resistance PVC insulated PVC extruded inner etc. complete Post-measurements as per MB Page No: 10					45.00	Rmtr

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Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
			@Rs 50.00	- - -	- - -	- - - =Rs	6750.00/-
37)	Labour charges for laying of 11 KV cross ug cable in existing trench GI pipe/ store pipe/ on wall etc. Qty vide post-Measurement C-MB Page No: 10		- - -	- - -	- - -	45.00	RM
			@Rs 84.00	- - -	- - -	- - - Rs	84.60/-
39)	Digging of trench of 0.6m deep x 0.45 Mtr wide Refilling the trench to the required ground level etc Qty vide Post-Measurement C-MB Page No:		10 - - -	- - -	- - -	45.00	RM
			@Rs 82.00	- - -	- - -	- - - =Rs	3690.00/-

Reference to last Measurement 8

Job
-Rs 6765.00/-
=

Job
-Rs 1485.00/-
=

RMtr
5.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
39)	Supplying & fixing of class A GI pipe on pole/ wall/drain crossing with necessary clamping etc complete as per direction of Engr-in-charge Qty-vide post-measurement, E-MB Page No: 10					4.00	RM.
	@Rs 335.00						Rs 1340.00/-
40)	Earthing supplying & fixing & covering earth electrode for grounding circuits DC outputs and others etc complete as per direction of Engr-in-charge Qty-vide post-measurement, E-MB Page No: 11					1.00	Job
	@Rs 4125.00						Rs 4125.00/-
41)	Providing, supplying and fixing suitable for 11KV class UG cable filled with necessary bitumen/ in suitable depth complete as per direction of Engr-in-charge Qty-vide post-measurements, MB Page No: 11					1.00	Each Job
	@Rs 566.50						Rs 566.50/-

Serial No.
Name of work
Name of Contractor of nature of Agency
Date of commencement of work

Date	Full description, etc, of work	Num
1	2	3
42)	Supply & fixing polished wood	
	mm 15mm thick plank on	
	Qty vide post-measurement	
43)	Supply and delivery at site	
	Kolo/Sabar/Khalanta/Cabandi	
	installation in 150mm dia bo	
	Qty vide post-measurement	

Reference to last Measurement 8
RM.
1340.00/-
Job
4125.00/-
Each Job
566.50/-

M. A. R. 57 (Rule 116) No. E497350
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
42)	Supply & fixing polished wood board made of not less than 15mm thick plank on both sides of not more etc.						
	Qty vide post-measurement, E-MB page NO: 11					1.00	NO
			@Rs 315.00			Rs	315.00/-
43)	Supply and delivery at site brand new Texmo/Mroval/ Kubi/Sabar/Akanta/Kahma make suitable for vertical installation in 150mm dia bore well Comprising etc.						
	Qty vide post-measurement, E-MB page NO: 11					1.00	NO
			@Rs 72126.00			Rs	72126.00/-

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	44) providing, supplying to work site, submersible pump set of 150mm dia suitable for bore well and confirming					1.00	Each
	as vide post-measurement, E-MB, page NO: 11						
	@Rs 78963.00					Rs	78963.00/-
	45) supply and delivery at site brand new texmo/mrad kubi/sabari/alabanta/cabarall make suitable for etc.						
	as vide post-measurement, E-MB, page NO: 12					1.00	NO
	@Rs 125677.00					Rs	125677.00/-
	46) supply & delivery at galvanized mild steel tubes of 6mm						
	standard length heavy duty (c class) as per IS 1239 etc					51.00	RM
	as vide post-measurement, E-MB, page NO: 12						
	@Rs 3355.00					Rs	171105.00/-

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Measurement Book

No. E 497351

Serial No. ..... From ..... To .....

Name of work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
47)	Supplying and drawing 3Core flat PVC sheathed submersible Pump cable manufactured with electrolytic grade copper etc as per vide, Post-measurement, E-MB Page No:- 12					642.00	RM
	@Rs 248.91					=Rs	159800.22/-
48)	Supplying fully automatic star delta starter unit push button type with suitable wires, 3 Contactors, etc. as per vide, Post-measurement, E-MB Page No:012					1.00	No
	@Rs 8640.00					=Rs	8640.00/-

Reference to last Measurement 8

Each
48963.00/-
=

NO
25677.00/-
=

RM
171105.00/-
=

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	iii) supply & delivery at site of brand new best make gate valve as per IS:778/ [illegible] measurement, c-MB		PRV size 150 mark - Page No: 12 - - - - - - @Rs 1375.00 - - - - -			1.00 - - - - - = Rs	Each 1375.00
	c) supply & delivery at site of brand new make non-return valve as per IS:778/1984 with ISI mark - (as the ref measurement, c-MB		Page No: 12 - - - - @Rs 1402.50 - - - - -			1.00 - - - - - = Rs	1402/-
	5) Supply & delivery at site brand new MCB of required Capacity etc.		delivery of best indigenous				

Serial No. .....
Name of work .....
Name of Contractor of nature o
Date of commencement of wor

Date	Full description, etc
1	2
	City wide post-me
	5A) Refilling available in layers not ex
	City wide Post-M

M. A. R. 57 (Rule 116)
Measurement Book

No. E 497352

Serial No. ..... From ..... To .....

Name of work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Qty vide post-measurement, E-MB page no: 13 @Rs 1375.00	- - -	- - -	- - -	1.00 - - Rs	per set 1375.00/-	
54)	Refilling available soil around trenches/pipeline, cable in in layers not exceeding 20 cm in depth, consolidating etc. Qty vide POST-measurement, E-MB page no: 13 @Rs 134.20	- - -	- - -	- - -	27.00 - - Rs	cum 3623.40/-	

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
25/	Various charges:						
	Receipt number CON2015357 dated 22.03.2023					- - -

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Measurement Book

No. E 497353

North

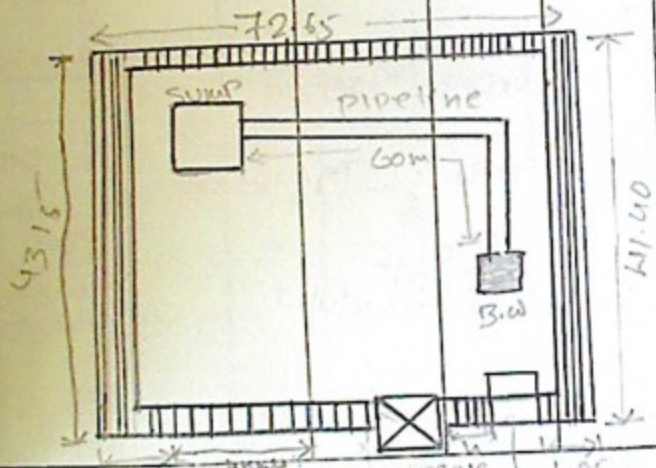
Serial No. ..... From ..... To .....

Name of work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Number	Dimensions		Depth	Contents	Reference to last Measurement
			Length	Breadth			
1	2	3	4	5	6	7	8



Location sketch:-

ಸಹಾಯಕ ಇಂಜಿನಿಯರ್ (ಎಲೆಕ್ಟ್ರಿಕಲ್)
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ-1.
ಕೆ.ಐ.ಎ.ಡಿ.ಬಿ. ಬೆಂಗಳೂರು-106

MEASUREMENT BOOK

Date	Full description, etc., of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	1st & Final Bill.						
	Total → 4398677:00						
	IT → 43987=00						
	LC → 43987=00						
	WF → 4399=00						
	GST → 37277=00						
	SGST → 37277=00						
	LR → 29555=00						
	T.D → 196482=00						
	Net → 4202195=00						

Audited & Attested For Rs. 4398677=00

By Ch Rs: 4202195=00

For Rs. 196482=00

Adjustment

Accou... 10/4/23

Exe Engineer
B.M.P Bangalore

Serial No.
Name of work
Name of Contractor of nature of Agency
Date of commencement of work

Date	Full description, etc., of work
1	2